

Course Code	MGMT 431
Course Title	Materials Management
Program	BA Degree in Management
Credit Hours	3
Instructor	Engidanesh A.
Course Description	The course deals with introduction to materials theory; objectives of materials management; Purchasing principles including such elements as description of quality; determination and control of quantity; make or buy decisions; selection of suppliers; organization of purchasing activities; transportation of purchases; materials handling, inventory control models (EOQ & EPQ); materials demand forecasting, Materials Requirement Planning (MRP); Just In Time system (JIT): stores management and warehousing.
Course Objective	It enables students to: <ul style="list-style-type: none"> ➤ Know the integrated materials management functions in manufacturing organizations. ➤ appreciate the interdependency of departments having relation with materials department ➤ conduct inventory analysis ➤ calculate economic order quantity ➤ forecast demand ➤ Do material Requirement Planning ➤ Be familiar with different inventory and ware house management practices.
Prerequisites	No pre-requisite
Delivery Time	Third Year, first semester
Status of the Course	Core
Teaching and Learning Methods	Lecture, Assignment, Projects, Industry visit
Attendance Requirements	80 % and above to sit for the Final Examination
Evaluation Scheme	Continuous Assessment – 50% and Final Exam – 50%

CHAPTER I - INTRODUCTION

- 1.1 Historical Development of Materials Management
- 1.2 Definition and scope of materials management
- 1.3. Importance of materials management
- 1.4. Organization for materials management

CHAPTER II - FORECASTING

- 2.1. Meaning of Forecasting
- 2.2. Characteristics of forecasts
- 2.3. Steps in Forecasting Process
- 2.4 . Uses of Forecast
- 2.5 . Types of Forecasting
 - 2.5.1 Qualitative Methods
 - 2.5.2 Quantitative Methods

CHAPTER III - PURCHASING

- 3.1. Meaning of Purchasing
- 3.2. Objectives of purchasing
- 3.3. Purchasing Policies
- 3.4. Purchasing Procedures
- 3.5. Supplier Evaluation & Selection
- 3.6 Make or Buy Decisions
- 3.7. Value Analysis
- 3.8 Global Sourcing

CHAPTER IV - INVENTORY MANAGEMENT

- 4.1. Introduction
- 4.2. Meaning of inventory
- 4.3. Functions and types of inventory
- 4.4. Objective of inventory management
- 4.5. Inventory Costs
- 4.6. Nature of demand in inventories
- 4.7. Inventory model
- 4.8. Inventory analysis systems
- 4.9. Just in time (JIT)

CHAPTER V - STORAGE

- 5.1. Introduction
- 5.2. Objectives of Stores
- 5.3. Storage Functions and Responsibility
- 5.4. Stores Location and Layout
- 5.5. Storage Systems and Types

CHAPTER VI - MATERIALS HANDLING

- 6.1. Definition and scope
- 6.2. Objectives of Materials Handling
- 6.3. Benefits of proper materials handling
- 6.4. Major Influencing Factor of Material Handling
- 6.5. Materials Handling Principles and Guideline
- 6.6. Material Handling Equipment
- 6.7. Material Disposal

CHAPTER VII-LOGISTICS

- 7.1. Transportation and traffic management
- 7.2. In-bound logistics
- 7.3. Out-bound logistics

References:

- Dobler, D.W. and Burt D,N ' Purchasing and Supply Management Text and Cases' 6th Edition, Mc. Graw- Hill
- Jessop, David and Morrison, Alex, 'Storage and Supply of materials' 6th Edition Pitman.
- Wild, Ray (1995),' Production and Operation Management' 5th Edition, Cassell.
- Chase. Richard B. Aquilano. Nicolas J and Jacobs. Robert F (1998) ' Production And Operation Management- Manufacturing and Services' 8th Edition, Irwin Mc Graw- Hill
- Bailey, P and Farmer, D, 'Purchasing Principle and Management, West publishing